

## Claims

### IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1. (original) A scrubber inlet device comprising:
  - an inlet manifold including
    - a port configured to receive an effluent gas stream from an exhaust line
    - and,
    - a heated gas inlet configured to receive a stream of heated gas; and
  - a scrubber interface device in fluid communication with the inlet manifold and configured to deliver the effluent gas stream from the inlet manifold to a gas scrubbing system.
2. (original) The scrubber inlet device of claim 1 wherein the port includes an insulating insert sleeve.
3. (original) The scrubber inlet device of claim 1 wherein the inlet manifold further includes insulation around an exterior thereof.

4. (previously presented) The scrubber inlet device of claim 1 wherein the scrubber interface device includes

a lower portion having a generally cylindrical interior surface, and

an insulated insert portion providing fluid communication between the inlet

manifold and the lower portion of the scrubber interface device.

5. (original) The scrubber inlet device of claim 4 wherein the scrubber interface device

further includes a system for providing a washing fluid to the generally

cylindrical interior surface of the lower portion.

6. (original) The scrubber inlet device of claim 4 wherein the insulated insert portion

extends into the inlet manifold.

7. (original) The scrubber inlet device of claim 1 wherein the inlet manifold is

separable from the scrubber interface device.

8. (original) The scrubber inlet device of claim 1 wherein the inlet manifold further

includes a plunger for clearing the scrubber interface device.

9. (original) The scrubber inlet device of claim 8 wherein the plunger includes a

perforated plunger head to allow the effluent gas stream to flow through the

scrubber interface device whenever the plunger head is disposed therein.

10. (original) The scrubber inlet device of claim 8 wherein  
the scrubber interface device includes an insulated insert portion, having a  
minimum diameter, for providing fluid communication to the inlet  
manifold, and  
the plunger includes a plunger head having a maximum diameter less than the  
minimum diameter of the insulated insert portion.
11. (original) The scrubber inlet device of claim 10 wherein the insulated insert portion  
includes a tapered portion.
12. (original) The scrubber inlet device of claim 8 wherein the inlet manifold further  
includes a recessed portion within which the plunger is retracted when not in  
use.
13. (original) The scrubber inlet device of claim 12 wherein the recessed portion  
includes the heated gas inlet.
14. (original) The scrubber inlet device of claim 13 wherein the recessed portion  
includes a gas distribution system to distribute the stream of heated gas from the  
heated gas inlet.
15. (original) The scrubber inlet device of claim 1 further comprising a source of  
heated gas configured to provide the stream of heated gas to the heated gas inlet.

16. (original) The scrubber inlet device of claim 15 wherein the source of heated gas provides an inert gas.
17. (previously presented) The scrubber inlet device of claim 16 wherein the inert gas comprises N<sub>2</sub>.
18. (original) The scrubber inlet device of claim 15 further comprising a gas temperature regulation system configured to regulate a temperature of the heated gas provided by the source of heated gas.
19. (original) The scrubber inlet device of claim 18 wherein the gas temperature regulation system includes  
a temperature sensor, and  
a controller in electrical communication with the temperature sensor and the source of heated gas and configured to regulate the temperature of the heated gas according to a signal from the temperature sensor.

20. (original) A method for delivering an effluent gas stream into a gas scrubbing

system comprising:

receiving the effluent gas stream into a manifold;

heating interior surfaces of the manifold to near a condensation temperature of

the effluent gas; and

providing the effluent gas stream to an interface device that is

effective to suppress nucleation of condensation from the effluent gas

stream, and

configured to direct the effluent gas stream into the gas scrubbing

system.

21. (original) The method of claim 20 wherein the condensation temperature of the

effluent gas is the condensation temperature of aluminum chloride.

22. (original) The method of claim 20 wherein heating interior surfaces of the manifold

includes flowing a heated gas stream into the manifold.

23. (original) The method of claim 20 wherein providing the effluent gas stream to the

interface device includes passing the effluent gas stream through an abrupt hot-

to-cold transition region in order to suppress condensation.

24. (original) The method of claim 20 wherein heating interior surfaces of the manifold to near the condensation temperature of the effluent gas includes heating interior surfaces of the manifold to above the condensation temperature of the effluent gas.
25. (original) The method of claim 20 further comprising clearing the interface device while providing the effluent gas stream to the interface device.
26. (original) A scrubber inlet device comprising:  
an inlet manifold including  
a port configured to receive an effluent gas stream from an exhaust line  
at a first temperature and,  
means for maintaining the effluent gas stream at or near the first  
temperature; and  
a scrubber interface device in fluid communication with the inlet manifold and  
configured to deliver the effluent gas stream from the inlet manifold to a  
gas scrubbing system.
27. (previously presented) The scrubber inlet device of claim 1 wherein the scrubber interface device includes an insulated insert portion.